

4

AD-A197 729

TIC FILE COPY

DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

1. SECURITY CLASSIFICATION Unclassified			1b. RESTRICTIVE MARKINGS		
2a. SECURITY CLASSIFICATION AUTHORITY			3. DISTRIBUTION/AVAILABILITY OF REPORT Approved for public release; distribution unlimited		
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE					
4. PERFORMING ORGANIZATION REPORT NUMBER(S)			5. MONITORING ORGANIZATION REPORT NUMBER(S)		
6a. NAME OF PERFORMING ORGANIZATION Univ. of South Florida		6b. OFFICE SYMBOL (if applicable)	7a. NAME OF MONITORING ORGANIZATION Cognitive Science Program ONR (Code 1142CS)		
6c. ADDRESS (City, State, and ZIP Code) Tampa, FL 33620			7b. ADDRESS (City, State, and ZIP Code) 800 N. Quincy St. Arlington, VA 22217-5000		
8a. NAME OF FUNDING/SPONSORING ORGANIZATION ONR, NICHD, Univ. of S. FL		8b. OFFICE SYMBOL (if applicable)	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER N00014-87-G-0210		
8c. ADDRESS (City, State, and ZIP Code)			10. SOURCE OF FUNDING NUMBERS		
			PROGRAM ELEMENT NO. 61153N	PROJECT NO. RR04206	TASK NO.
			WORK UNIT ACCESSION NO. 		
11. TITLE (Include Security Classification) Final Report on the Conference 'Speaking, Reading, Thinking, and Development: A Conference on the Accomplishments and Goals of Modern Research'					
12. PERSONAL AUTHOR(S) Wallace Russell, U. of S. FL					
13a. TYPE OF REPORT Final		13b. TIME COVERED FROM Jan 87 TO 		14. DATE OF REPORT (Year, Month, Day) 1988 May 10	
15. PAGE COUNT 19					
16. SUPPLEMENTARY NOTATION Publication of Proceedings as an edited volume; copy to be supplied to ONR.					
17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)		
FIELD	GROUP	SUB-GROUP	Cognitive psychology; applied psychology; recent research		
19. ABSTRACT (Continue on reverse if necessary and identify by block number) This is a Final Report on a conference on cognitive psychology, held January 16-18, 1987 at the Univ. of S. Florida. Leading cognitive psychologists gathered to present integrative summaries of recent research and to discuss current methodological and theoretical issues. Funds from the two Federal Sponsors (the ONR and the NICHD) were devoted exclusively to rembursement of the participants' travel expenses. All other expenses (i.e., telephone, lodging, etc.) were covered by funds donated by the Univ. of S. Florida. The Sponsors will receive a copy of the full set of presented papers and a copy of the edited volume based on the conference.					
20. DISTRIBUTION/AVAILABILITY OF ABSTRACT <input checked="" type="checkbox"/> UNCLASSIFIED/UNLIMITED <input type="checkbox"/> SAME AS RPT <input type="checkbox"/> DTIC USERS			21. ABSTRACT SECURITY CLASSIFICATION Unclassified		
22a. NAME OF RESPONSIBLE INDIVIDUAL Wallace Russell, U. of S. FL			22b. TELEPHONE (Include Area Code) (813) 974-2154		22c. OFFICE SYMBOL

DTIC
SELECTED
SEP 06 1988
E

FINAL REPORT
on the Conference

ISPEAKING, READING, THINKING, AND DEVELOPMENT:
A CONFERENCE ON
THE ACCOMPLISHMENTS AND GOALS OF MODERN RESEARCH

Office of Naval Research, Cognitive Science Program
Grant No. N00014-87-G-0210

National Institute of Child Health and Human Development
Reference No. 1 R13 HD/NS22342-01

Conference held January 16 - 18, 1987
College of Social and Behavioral Sciences
University of South Florida
Tampa, FL 33620

Principal Investigator: Wallace Russell
College of Social and Behavioral Sciences
University of South Florida

Signature and Date:

Wallace Russell

May 10, 1987

Institutional Representative: Frank Lucarelli

Director, Division of Sponsored Research
University of South Florida
4202 E. Fowler Avenue
Tampa, FL 33620

Signature and Date:

Frank Lucarelli

6-13-88

Reproduction in whole or in part is permitted for any purpose by
the U.S. Government.

TABLE OF CONTENTS

	<u>Page</u>
Report Documentation Page	1
Title Page	2
Table of Contents	3
Report on the Conference	4
Purposes of the Conference	4
Proceedings, The Participants, and Their Affiliations	5
Publication of the Proceedings	7
References	8
Final Expenditure Report	9
Explanation of the Expenditures	10
Report Distribution List	11

Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By _____	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A-1	



REPORT ON THE CONFERENCE

Purposes of the Conference

The purpose of the Conference was to provide a forum in which leading cognitive psychologists would debate questions that are both fundamental to experimental psychology and also directly related to practical concerns. Such questions are: How do people learn to read? What happens during the process of speech perception? How do people acquire problem-solving skills? How do cognitive and motor skills develop?

A great deal of research has been conducted on these important topics in the last two decades, during which cognitive psychology has existed as a recognized speciality area. However, there is a considerable diversity among the research methods that have been used, and among the answers that the research has provided. There is also a divergence of opinion concerning fundamental theoretical issues (Fodor, 1984; Jenkins, 1980; Neisser, 1984). Concurrent with this "ferment" in the field of cognitive psychology has been an increasing interest in important applied topics, such as the nature of cognitive processes in instructional settings, the problem-solving skills of experts, and memory in real-world contexts (e.g., Bransford, 1979; Jenkins, 1983; Neisser, 1982).

The Conference involved both prominent senior scientists and innovative young researchers in discussions of research that lies at the "cutting edge." The conference was organized into Symposia and Discussion Sessions whose topics were suggested directly by the goals of the conference (i.e., reading, skill acquisition, learning, problem-solving, etc.). The presentations involved summaries of available knowledge, aimed at integration. There were also debates about fundamental theoretical issues, including the question of the goals of cognitive psychology.

In order to facilitate discussion among the participants, all conference events were held, through special arrangement, in meeting rooms at the hotel where the participants were lodged. Overall, the conference events ran very smoothly.

Conference Proceedings, The Participants, and Their Affiliations

Welcoming Remarks

Dean Wallace Russell, University of South Florida

Introductory Remarks on the Goals of the Conference

David Palermo, The Pennsylvania State University

"Perceiving, Imaging, and Learning"

Ulric Neisser, Emory University

Discussant: William Mace, Trinity College

Symposium: Reading

"Syntactic Modularity in Sentence Comprehension"

Charles Clifton, University of Massachusetts

"Wholistic Models of Word Processing"

Neal F. Johnson, Ohio State University

"Individual Differences in Reading"

Philip Gough, University of Texas-Austin

Discussant: Charles Cofer, University of Houston

Symposium: Speech and Language

"Auditory Enhancement of Phonological Contrasts"

Randy Diehl, University of Texas-Austin

"A Note on Linguistic Nativism"

Michael Studdert-Kennedy, Haskins Laboratory

"Auditory Modules: Competition and Preemptiveness"

Alvin Liberman and Ignatius Mattingly, Haskins Laboratory

Discussant: Winifred Strange, University of South Florida

Discussion Session: Language, Speech, and Reading

Moderator: Winifred Strange, University of South Florida

Participants: James Jenkins, University of South Florida

Leah Larkey, Kurzweil Intelligent Systems, Inc.

Terry Halwes, Cognitive Science, University of
Colorado

Judith Becker, University of South Florida

Robert Verbrugge, AT&T Bell Labs

Symposium: Cognitive and Perceptual Development

"An Eventful Description of Retarded Cognitive Development"

Penelope Brooks and James Van Hannegan, George Peabody College

"Knowledge Acquisition and Knowledge Restructuring"

William Brewer, University of Illinois

Discussant: Anne Pick, Institute for Research on Child Development,
University of Minnesota

"Exploratory Activity and the Learning of Affordances in Infancy"

Eleanor Gibson, Cornell University

Symposium: Skill

"The Visual Guidance of Motor Performance"

Herbert Pick, University of Minnesota

"Developments in the Mathematical Analysis of Skill"

Elliot Saltzman, Haskins Laboratory

"Steps Toward a Theory of Skill Acquisition"

Michael Turvey, University of Connecticut

Discussant: Jerry Fodor, Dept. Philos., CUNY

Symposium: Learning

"Putting the Head Inside the Machine: Implications of Ecological
Psychology for 'Connectionism'"

Robert Shaw, University of Connecticut

"Constraints on Access to Knowledge: Costs and Benefits"

John Bransford and Jeffrey Franks, Vanderbilt University

"Cognition, Motivation, and Emotion: Ideology Revisited"

William Dember, University of Cincinnati

Symposium: Problem-Solving

"Naive Physics and Event Perception: Two Approaches to Assessing
Knowledge of Physics"

John Pittenger, University of Arkansas-Little Rock

"Perceiving Persistence: Sweeping Memory Under the Rug"

William Mace, Trinity College

Discussion Session: The Goals of Applied Cognitive Psychology

Winifred Strange, University of South Florida

Leah Larkey, Kurzweil, Inc.

Robert R. Hoffman, Adelphi University

John Flavell, Stanford University

Publication of the Proceedings

The two Federal Sponsors will each receive a complete set of the papers that were presented at the Conference. The editing process is currently under way, supervised by Conference Co-Organizers Robert R. Hoffman of the Department of Psychology, Adelphi University, and David Palermo of the Department of Psychology of The Pennsylvania State University. The editing process should be completed within the year (i.e., by December, 1988). The sponsors will also receive a copy of the proceedings when they appear as an edited volume. A contract for publication has been secured with Lawrence Erlbaum Associates, Inc. The Editors' Introduction to that volume will include full acknowledgement of the Sponsors.

REFERENCES

- Bransford, J.D. (1979). Human cognition. Belmont, CA: Wadsworth.
- Fodor, J.A. (1984). The modularity of mind. Cambridge, MA: The MIT Press.
- Jenkins, J. J. (1980). Can we have a fruitful cognitive psychology?
In H. E. Howe (Ed.) Nebraska symposium on motivation. Lincoln, NE: University of Nebraska Press.
- Jenkins, J. J. (1983). "Educating for applications." Paper presented at the Second Annual Conference on Applied Experimental Psychology, Adelphi University, Garden City, NY.
- Neisser, U. (Ed.) (1982). Memory observed. San Francisco, CA: W.H. Freeman.
- Neisser, U. (1984). Toward an ecologically-oriented cognitive psychology. In T. Schlecter & M. Toglia (Eds.) New directions in cognitive science. Norwood, NJ: Ablex.

UNIVERSITY OF SOUTH FLORIDA
Division of Finance and Accounting

1988 APR 13 14 11: 54

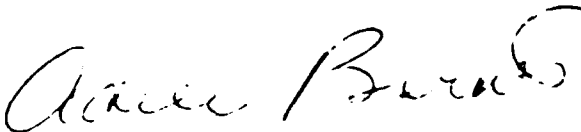
Final Expenditure Report For Grant Entitled
"Conference on Speaking, Reading, Thinking, and Development"

Grant # N00014-87-G-0210
USF # 3101-048 PO

For the Period 1/1/87 through 12/31/87

Award	\$3,560.00
Expenditures	<u>-3,560.00</u>
Balance	<u>\$ -0-</u>

If there are any questions concerning this report, please contact Marilyn Parinello at (813) 974-2711 extension 303.



Adele S. Bernett
Associate Comptroller

MP:jdf

cc: Sandy Terminey, FAO 126
Nancy Serrano, Dean's Office, SOC 104

Robert R. Hoffman, Assoc. Prof.
Department of Psychology
Adelphi University
Garden City, NY 11530

EXPLANATION OF THE EXPENDITURES

The funds contributed by both Federal Sponsors, and referred to in the Final Expenditure Report (page nine), were devoted entirely to reimbursements of the participants' travel expenses. The expenditures from other budget categories (lodging, hospitality services, telephone, etc.) were covered by that portion of the Conference's proposed budget that was donated by the University of South Florida. Overall, the expenses for travel, lodging, telephone, and hospitality services were slightly less than expected. Furthermore, receipts from the modest registration fee were slightly more than expected.

REPORT DISTRIBUTION LIST

Cognitive Science Program (3 copies)

ONR (Code 1142PT)

800 N. Quincy St.

Arlington, VA 22217-5000

Dr. Susan Chipman (3 copies)

Division of Behavioral Science

ONR

800 N. Quincy St.

Arlington, VA 22217-5000

Dr. Bruce Hamill

Cognitive Science Program

ONR (Code 1142PT)

800 N. Quincy St.

Arlington, VA 22217-5000

Dr. W. S. Vaughn

Psychological Sciences

ONR

800 N. Quincy St.

Arlington, VA 22217-5000

Dr. Harold Hawkins

Biological Intelligence

ONR

800 N. Quincy St.

Arlington, VA 22217-5000

Donald Eiler

Office of Grants and Contracts

NICHHD

Bethesda, MD 20892

Don Clark (3 copies)
Office of Grants and Contracts
NICHHD
Bethesda, MD 20892

Dr. James Kavanagh (3 copies)
NICHHD
Bethesda, MD 20892

Distribution List continues on the following page.

O-List

Dr. Robert Ahlers
Code N711
Human Factors Laboratory
Naval Training Systems Center
Orlando, FL 32813

Technical Director, ARI
5001 Eisenhower Avenue
Alexandria, VA 22304

LTC Hugh Burns
AFHRL/IDE
Lowry AFB, CO 80230-5000

Dr. Stanley Collier
Office of Naval Technology
Code 222
800 N. Quincy Street
Arlington, VA 22217-5000

Dr. R. F. Dismukes
Associate Director for Life Sciences
AFOSR
Bolling AFB
Washington, DC 20332

Dr. Sherrile Gott
AFHRL/MODJ
Brooks AFB, TX 78235

Janice Hart
Office of the Chief
of Naval Operations
OP-114D
Department of the Navy
Washington, D.C. 20350-2000

Dr. Joe McLachlan
Navy Personnel R&D Center
San Diego, CA 92152-6800

Dr. William Montague
NPRDC Code 13
San Diego, CA 92152-6800

Technical Director
Navy Personnel R&D Center
San Diego, CA 92152-6800

Office of Naval Research,
Code 1142CS
800 N. Quincy Street
Arlington, VA 22217-5000
(6 Copies)

Psychologist
Office of Naval Research
Branch Office, London
Box 39
FPO New York, NY 09510

Special Assistant for Marine
Corps Matters.
ONR Code 00MC
800 N. Quincy St.
Arlington, VA 22217-5000

Psychologist
Office of Naval Research
Liaison Office, Far East
APO San Francisco, CA 96503

Dr. Judith Orasanu
Army Research Institute
5001 Eisenhower Avenue
Alexandria, VA 22304

Dr. Joseph Psotka
ATTN: PEF1-1C
Army Research Institute
5001 Eisenhower Ave.
Alexandria, VA 22304

Dr. John Tangney
AFOSR/NL
Bolling AFB, DC 20332

Dr. Wallace Wulfeck, III
Navy Personnel R&D Center
San Diego, CA 92152-6800

Dr. Joseph L. Young
Memory & Cognitive
Processes
National Science Foundation
Washington, DC 20550

Dr. Steven Zornetzer
Office of Naval Research
Code 1140
800 N. Quincy St.
Arlington, VA 22217-5000

Contractor List 1/88

Dr. Phillip L. Ackerman
University of Minnesota
Department of Psychology
Minneapolis, MN 55455

Dr. John R. Anderson
Department of Psychology
Carnegie-Mellon University
Pittsburgh, PA 15213

Dr. Patricia Baggett
School of Education
610 E. University, Rm 1302D
University of Michigan
Ann Arbor, MI 48109-1259

Dr. Eva L. Baker
UCLA Center for the Study
of Evaluation
145 Moore Hall
University of California
Los Angeles, CA 90024

Dr. Andrew S. Baum
Dept. of Medical Psychology
Uniformed Services University
of the Health Sciences
4301 Jones Bridge Road
Bethesda, MD 20814-4799

Dr. R. Darrell Bock
University of Chicago
NORC
6030 South Ellis
Chicago, IL 60637

Dr. Jeff Bonar
Learning R&D Center
University of Pittsburgh
Pittsburgh, PA 15260

Dr. John S. Brown
XEROX Palo Alto Research
Center
3333 Coyote Road
Palo Alto, CA 94304

Dr. Pat Carpenter
Carnegie-Mellon University
Department of Psychology
Pittsburgh, PA 15213

Dr. Michelene Chi
Learning R & D Center
University of Pittsburgh
3939 O'Hara Street
Pittsburgh, PA 15213

Dr. Yee-Yeen Chu
Perceptronics, Inc.
21111 Erwin Street
Woodland Hills, CA 91367-3713

Dr. William Clancey
Stanford University
Knowledge Systems Laboratory
701 Welch Road, Bldg. C
Palo Alto, CA 94304

Dr. Charles Clifton
Tobin Hall
Department of Psychology
University of
Massachusetts
Amherst, MA 01003

Dr. Sheldon Cohen
Department of Psychology
Carnegie-Mellon University
Pittsburgh, PA 15213

Dr. Allan M. Collins
Bolt Beranek & Newman, Inc.
50 Moulton Street
Cambridge, MA 02138

Dr. Richard Duran
University of California
Santa Barbara, CA 93106

Dr. Jeffrey Elman
University of California,
San Diego
Department of Linguistics, C-008
La Jolla, CA 92093

Dr. K. Anders Ericsson
University of Colorado
Department of Psychology
Boulder, CO 80309

Contractor List 1/88

Dr. Martha Farah
Department of Psychology
Carnegie-Mellon University
Schenley Park
Pittsburgh, PA 15213

Dr. Paul Feltoovich
Southern Illinois University
School of Medicine
Medical Education Department
P.O. Box 1926
Springfield, IL 62708

Mr. Wallace Feurzeig
Educational Technology
Bolt Beranek & Newman
10 Moulton St.
Cambridge, MA 02238

Dr. Bernhard Fischer
University of Colorado
Department of Computer Science
Boulder, CO 80309

Dr. Linda Flower
Carnegie-Mellon University
Department of English
Pittsburgh, PA 15213

Dr. Barbara A. Fox
University of Colorado
Department of Linguistics
Boulder, CO 80309

Dr. John R. Frederiksen
Bolt Beranek & Newman
50 Moulton Street
Cambridge, MA 02138

Dr. Norman Frederiksen
Educational Testing Service
Princeton, NJ 08541

Dr. Dedre Gentner
University of Illinois
Department of Psychology
603 E. Daniel St.
Champaign, IL 61820

Dr. Robert D. Gibbons
Illinois State Psychiatric Inst.
Rm 529W
1601 W. Taylor Street
Chicago, IL 60612

Dr. Robert Glaser
Learning Research
& Development Center
University of Pittsburgh
3939 O'Hara Street
Pittsburgh, PA 15260

Dr. Arthur M. Glenberg
University of Wisconsin
W. J. Brogden Psychology Bldg.
1202 W. Johnson Street
Madison, WI 53706

Dr. Clark Glymour
Department of Philosophy
Carnegie-Mellon University
Pittsburgh, PA 15213

Dr. Susan Goldman
University of California
Santa Barbara, CA 93106

Dr. T. Govindaraj
Georgia Institute of Technology
School of Industrial & Systems
Engineering
Atlanta, GA 30332

Dr. Arthur C. Graesser
Department of Psychology
Memphis State University
Memphis, TN 38152

Dr. Bert Green
Johns Hopkins University
Department of Psychology
Charles & 34th Street
Baltimore, MD 21218

Dr. James G. Greeno
University of California
Berkeley, CA 94720

Contractor List 1/88

Dr. Kristian J. Hammond
Department of Computer Science
University of Chicago
1100 E. 58th St.
Chicago, IL 60637

Prof. John R. Hayes
Carnegie-Mellon University
Department of Psychology
Schenley Park
Pittsburgh, PA 15213

Dr. Geoffrey Hinton
Carnegie-Mellon University
Computer Science Department
Pittsburgh, PA 15213

Dr. Paul W. Holland
Educational Testing Service
Rosedale Road
Princeton, NJ 08541

Dr. James Howard
Dept. of Psychology
Human Performance Laboratory
Catholic University of
America
Washington, DC 20064

Dr. Lloyd Humphreys
University of Illinois
Department of Psychology
603 East Daniel Street
Champaign, IL 61820

Dr. Earl Hunt
Department of Psychology
University of Washington
Seattle, WA 98105

Dr. Robert Jannarone
Department of Psychology
University of South Carolina
Columbia, SC 29208

Dr. Douglas H. Jones
Thatcher Jones Associates
P.O. Box 6640
10 Trafalgar Court
Lawrenceville, NJ 08648

Dr. Marcel Just
Carnegie-Mellon University
Department of Psychology
Schenley Park
Pittsburgh, PA 15213

Dr. Dennis Kibler
University of California
Department of Information
and Computer Science
Irvine, CA 92717

Dr. David Kieras
Technical Communication Program
TIDAL Bldg., 2360 Bonisteel Blvd.
University of Michigan
Ann Arbor, MI 48109-2108

Dr. David Klahr
Carnegie-Mellon University
Department of Psychology
Schenley Park
Pittsburgh, PA 15213

Dr. Sylvan Kornblum
University of Michigan
Mental Health Research Institute
205 Washtenaw Place
Ann Arbor, MI 48109

Dr. Stephen Kosslyn
Harvard University
1236 William James Hall
33 Kirkland St.
Cambridge, MA 02138

Dr. Kenneth Kotovsky
Department of Psychology
Community College of
Allegheny County
800 Allegheny Avenue
Pittsburgh, PA 15233

Dr. Pat Langley
University of California
Department of Information
and Computer Science
Irvine, CA 92717

Dr. Jill Larkin
Carnegie-Mellon University
Department of Psychology
Pittsburgh, PA 15213

Contractor List 1/88

Dr. Alan M. Lesgold
Learning R&D Center
University of Pittsburgh
Pittsburgh, PA 15260

Dr. John Levine
Learning R&D Center
University of Pittsburgh
Pittsburgh, PA 15260

Dr. Michael Levine
Educational Psychology
210 Education Bldg.
University of Illinois
Champaign, IL 61801

Dr. Clayton Lewis
University of Colorado
Department of Computer Science
Campus Box 430
Boulder, CO 80309

Dr. Frederic M. Lord
Educational Testing Service
Princeton, NJ 08541

Dr. Stuart Macmillan
FMC Corporation
Central Engineering Labs
1185 Coleman Avenue, Box 580
Santa Clara, CA 95052

Dr. Sandra P. Marshall
Dept. of Psychology
San Diego State University
San Diego, CA 92182

Dr. Jay McClelland
Department of Psychology
Carnegie-Mellon University
Pittsburgh, PA 15213

Dr. James L. McGaugh
Center for the Neurobiology
of Learning and Memory
University of California, Irvine
Irvine, CA 92717

Dr. Barbara Means
Human Resources
Research Organization
1100 South Washington
Alexandria, VA 22314

Prof. D. Michie
The Turing Institute
36 North Hanover Street
Glasgow G1 2AD, Scotland
UNITED KINGDOM

Dr. George A. Miller
Department of Psychology
Green Hall
Princeton University
Princeton, NJ 08540

Dr. Robert Mislevy
Educational Testing Service
Princeton, NJ 08541

Dr. Allen Munro
Behavioral Technology
Laboratories - USC
1845 S. Elena Ave., 4th Floor
Redondo Beach, CA 90277

Dr. T. Niblett
The Turing Institute
36 North Hanover Street
Glasgow G1 2AD, Scotland
UNITED KINGDOM

Dr. Richard E. Nisbett
University of Michigan
Institute for Social Research
Room 5261
Ann Arbor, MI 48109

Dr. Donald A. Norman
Institute for Cognitive Science
University of California
La Jolla, CA 92093

Dr. Stellan Ohlsson
Learning R & D Center
University of Pittsburgh
3939 O'Hara Street
Pittsburgh, PA 15213

Dr. James Paulson
Department of Psychology
Portland State University
P.O. Box 751
Portland, OR 97207

Contractor List 1/88

Dr. James W. Pellegrino
University of California,
Santa Barbara
Department of Psychology
Santa Barbara, CA 93106

Dr. Nancy Pennington
University of Chicago
Graduate School of Business
1101 E. 58th St.
Chicago, IL 60637

Dr. Michael I. Posner
Department of Neurology
Washington University
Medical School
St. Louis, MO 63110

Dr. Mark D. Reckase
ACT
P. O. Box 168
Iowa City, IA 52243

Dr. Lynne Reder
Department of Psychology
Carnegie-Mellon University
Schenley Park
Pittsburgh, PA 15213

Dr. Lauren Resnick
Learning R & D Center
University of Pittsburgh
3939 O'Hara Street
Pittsburgh, PA 15213

Dr. Barry Riegelhaupt
HumRRD
1100 South Washington Street
Alexandria, VA 22314

Dr. William E. Rouse
Search Technology, Inc.
5550a Peachtree Parkway, #500
Norcross, GA 30092

Dr. David Rumelhart
Center for Human
Information Processing
Univ. of California
La Jolla, CA 92093

Dr. Fumiko Samejima
Department of Psychology
University of Tennessee
3108 AustinPeay Bldg.
Knoxville, TN 37916-0900

Dr. Walter Schneider
Learning R&D Center
University of Pittsburgh
3939 O'Hara Street
Pittsburgh, PA 15260

Dr. Janet Schofield
Learning R&D Center
University of Pittsburgh
Pittsburgh, PA 15260

Dr. Derek Sleeman
Stanford University
School of Education
Stanford, CA 94305

Dr. Elliot Soloway
Yale University
Computer Science Department
P.O. Box 2158
New Haven, CT 06520

Dr. Paul Speckman
University of Missouri
Department of Statistics
Columbia, MO 65201

James J. Staszewski
Research Associate
Carnegie-Mellon University
Department of Psychology
Schenley Park
Pittsburgh, PA 15213

Dr. Robert Sternberg
Department of Psychology
Yale University
Box 11A, Yale Station
New Haven, CT 06520

Dr. Martha Stocking
Educational Testing Service
Princeton, NJ 08541

Contractor List 1/88

Dr. William Stout
University of Illinois
Department of Statistics
101 Illini Hall
725 South Wright St.
Champaign, IL 61820

Dr. Kikumi Tatsuoka
CERL
252 Engineering Research
Laboratory
Urbana, IL 61801

Dr. Perry W. Thorndyke
FMC Corporation
Central Engineering Labs
1185 Coleman Avenue, Box 580
Santa Clara, CA 95052

Dr. Douglas Towne
Behavioral Technology Labs
1845 S. Elena Ave.
Redondo Beach, CA 90277

Dr. Robert Tsutakawa
University of Missouri
Department of Statistics
222 Math. Sciences Bldg.
Columbia, MO 65211

Dr. Ledyard Tucker
University of Illinois
Department of Psychology
603 E. Daniel Street
Champaign, IL 61820

Dr. David Vale
Assessment Systems Corp.
2233 University Avenue
Suite 310
St. Paul, MN 55114

Dr. Kurt Van Lehn
Department of Psychology
Carnegie-Mellon University
Schenley Park
Pittsburgh, PA 15213

Dr. Ming-Mei Wang
Lindquist Center
for Measurement
University of Iowa
Iowa City, IA 52242

Dr. Kent E. Williams
Inst. for Simulation and Training
University of Central Florida
P.O. Box 25000
Orlando, FL 32816-0544

Dr. George Wong
Biostatistics Laboratory
Memorial Sloan-Kettering
Cancer Center
1275 York Avenue
New York, NY 10021